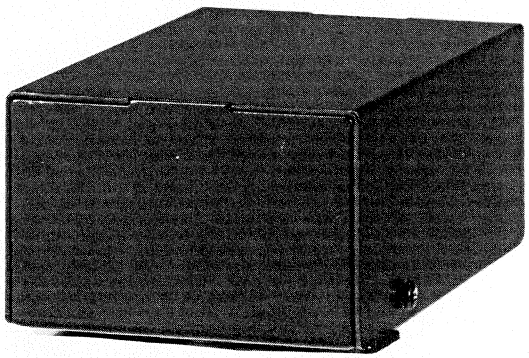
JVC

SERVICE MANUAL

ALARM SYSTEM

MODEL KS-U2K



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No. 4911
April 1984

Connections

Alarm System KS-U2K

The KS-U2K provides an anti-theft warning to protect your car stereo unit.

To prevent short circuits from occuring, while making connection, keep the battery's negative terminal disconnected.

Mount & Connections

1. Mount unit under hood on firewall, or other hidden inaccessible location. Route blue, green, and pink leads inside car.
2. Connect GREEN wire to lead on rear of JVC unit (green). If no green wire is present, be sure to connect to chassis screw or ground lead.
3. Connect BLUE wire per Figs. 1, 2, 3 or 4 as required. This lead must be connected or grounded.
4. Connect BLACK and ORANGE paired leads to vehicle horn or other sounding device per Figs. 5, 6 or 7 as required.
5. Connect PINK wire to switched 12 V + source. (ignition)
6. Connect BLACK single lead with lug terminal to metal part of car (ground) or negative side of battery etc.
7. Connect RED lead to constant 12 V + source.
8. TEST alarm as follows:
   a) Turn ignition on, then off.
   b) Disconnect BLUE lead or GREEN lead from unit. Horn (or sounding device) should sound.
   c) Turn on ignition. Horn should stop sounding Reconnect GREEN & BLUE leads.

   Note: Horn will sound for about 1 minute (about 30 sec. = KS-U2K(E) version) if ignition is not turned on, then stop.

for any inquiry, consult a JVC car audio dealer or radio installer.

Blue lead Connecting to radio shaft

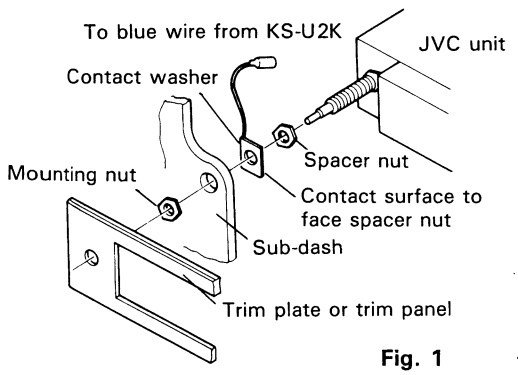


Fig. 1

Note:
Verify grounding of contact washer.

Blue lead Connecting to mounting plate

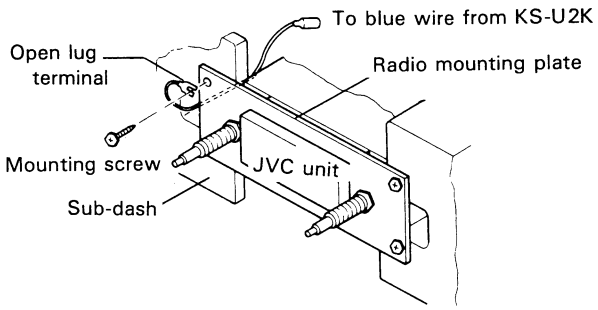


Fig. 2

Note:
Verify grounding of mounting plate/screw.

Blue lead Connecting to panel type unit

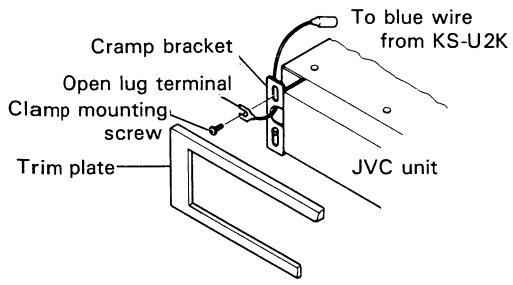


Fig. 3

Blue lead Connecting to underdash unit

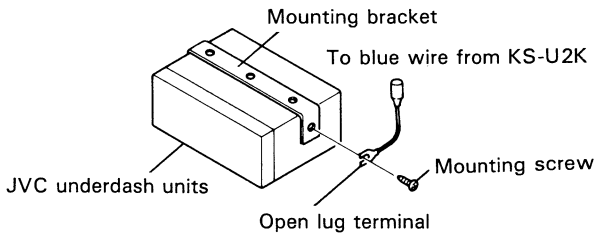


Fig. 4

Positive switched horns
(GM, FORDS, AMC, some imports)

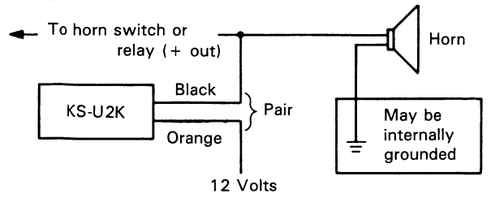


Fig. 5

Negative switched horns
(VW's and some european makes)

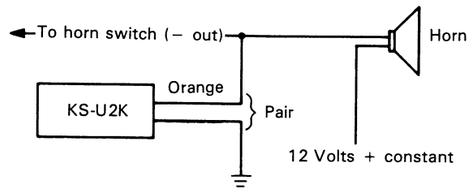


Fig. 6

Relay-switched devices

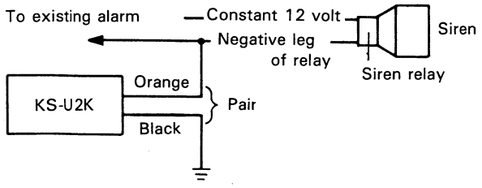
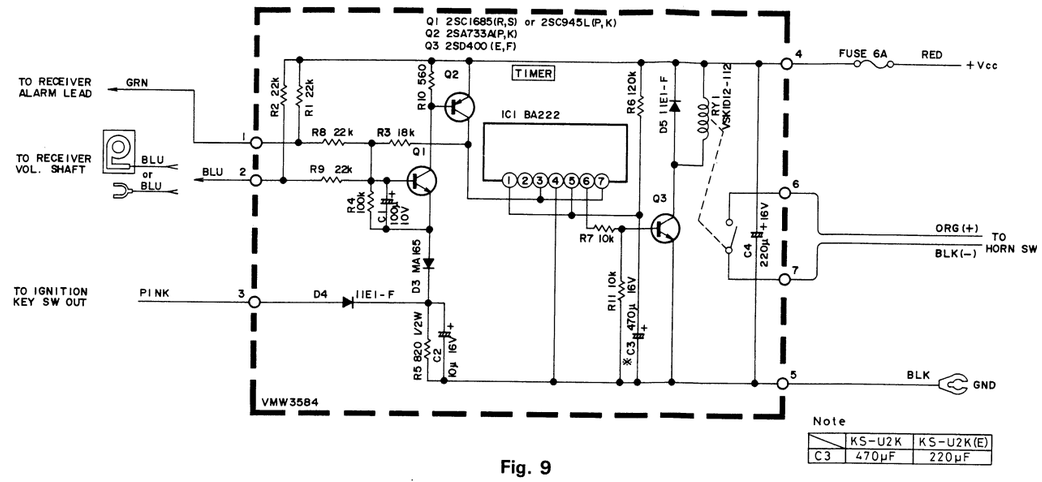


Fig. 7

Standard Schematic Diagram of KS-U2K



Note

	KS-U2K	KS-U2K(E)
C3	470μF	220μF

Fig. 9

Electrical Connections

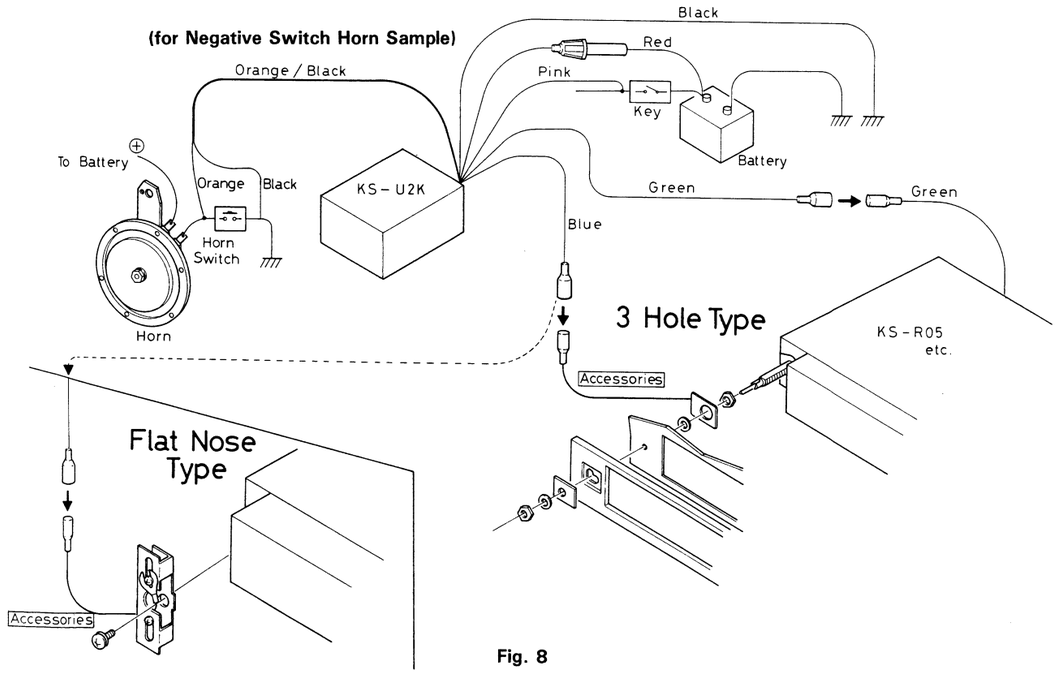


Fig. 8

Function of KS-U2K

- By disengagement of the GREEN or BLUE wires, Q1 and Q2 are switched ON and the Vcc is applied to IC 1 (BA222).
  Then the output terminal ⑥ reaches "H" level and Q3 is switched to ON to make the Relay circuit(RY 1) operate which sounds the horn.

- Operating Time

$$t_{(s)} = C3_{(F)} \times R6_{(\Omega)} \times \alpha = \text{operating time}$$
$$(\alpha \fallingdotseq 1.1)$$

- Reset Circuit

1. When Vcc (+B) is applied to the PINK wire, the horn does not work even if the sensor circuit (GREEN or BLUE wires) is disengaged.
2. When the horn is already working, the circuit is not reset if the sensor circuit (GREEN or BLUE) is not connected and the Vcc (+B) is not applied to the PINK wire, therefore the horn is not operated even when the sensor circuit is disengaged.
3. To prevent the operation of the horn while driving the car, connect the reset circuit to the Vcc circuit while the engine is switched on.

P.C. Board Parts and Parts List

Pattern side

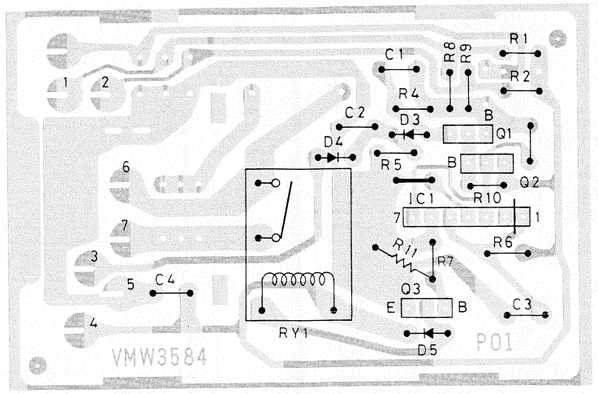


Fig. 10

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

P.C. Board Parts List

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	R1,R2,R9	QRD144J-223S	C. Resistor		3
	R4	〃 -104S	〃		1
	R3,R11,R7	〃 -183S	〃		3
	R5	〃 -821S	〃		1
	R6	〃 -124S	〃		1
	R8	〃 -223S	〃		1
	R10	〃 -561S	〃		1
	C1	QET51CR-107	E. Capacitor		1
	C2	〃 -106	〃		1
	C4	〃 -227	〃		1
	C3	QEC81CM-477	〃		1
	D3	MA165	Si Diode		1
	D4,D5	11E1	〃		2
	Q1	2SC945L(P,K)	Transistor		1
	Q2	2SA733A(P,K)	〃		1
	Q3	2SD400(E,F)	〃		1
	IC1	BA222	I.C.		1
	RY1	VSK1D12-112	Relay		1

Wiring Connections of P.C. Board

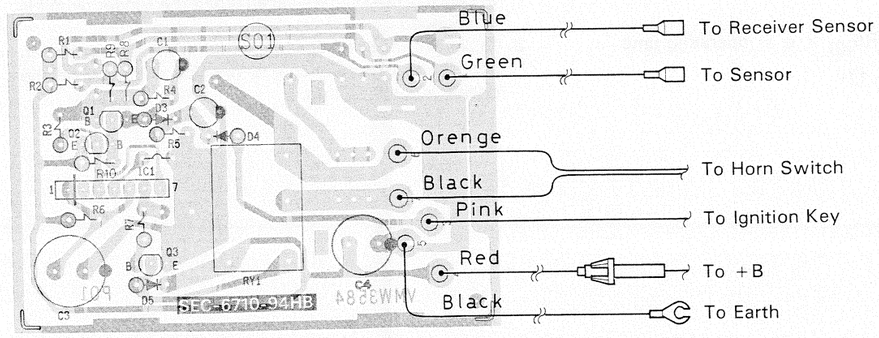


Fig 11

Exploded View and Parts List

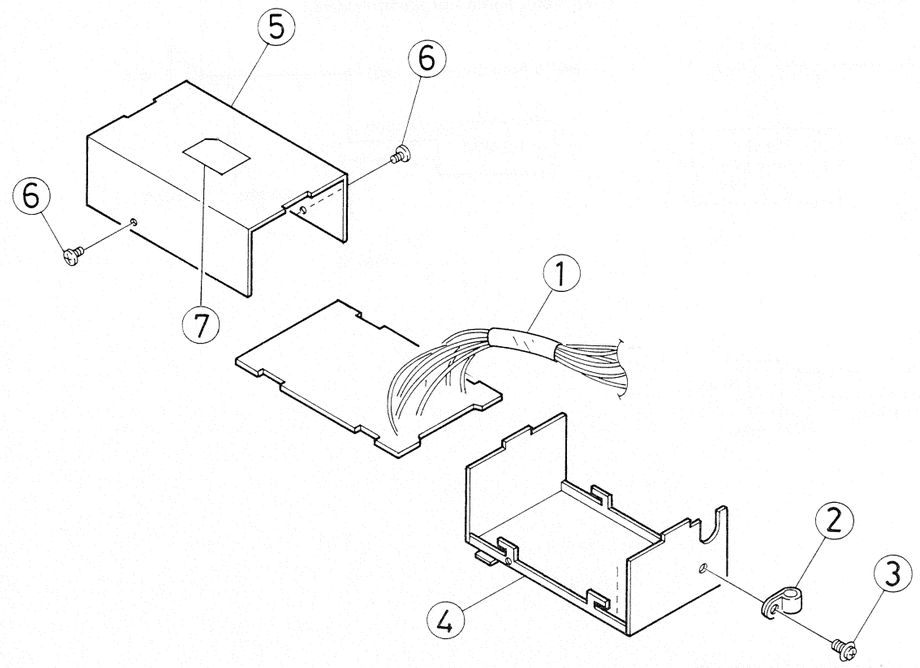


Fig. 11

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Enclosure Assembly Parts List

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	1	VMP3014-001	Cord Ass'y		1
	2	VMZ0029-004	Nylon Clip		1
	3	DPSP3008Z	Screw	Nylon Clip	1
	4	VKL5602-00C	Chassis Ass'y		1
	5	VJC4092-002	Cover		1
	6	SDST2004M	Screw	for cover	2
	7	VYN3044-0019A	Name Plate		1

Packing

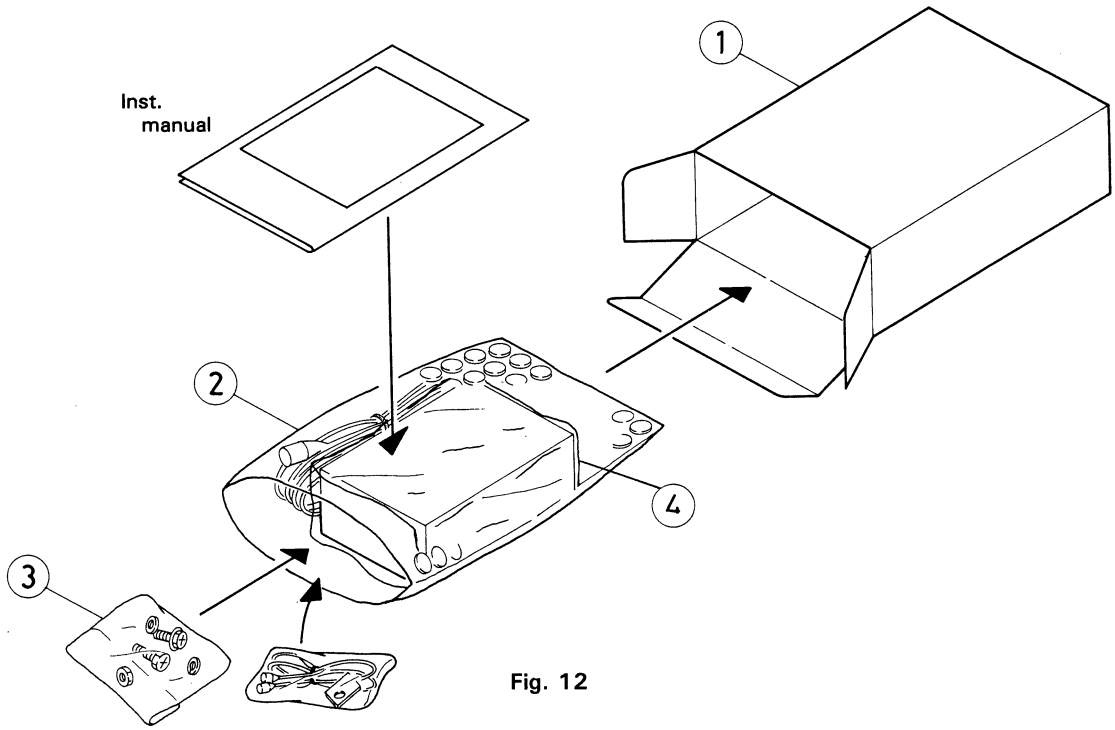


Fig. 12

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Packing Parts List

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	1	VPD3044-J01	Carton		1
	2	VPE4005-001	Poly bag (air cushion)	for Unit	1
	3	QPGA007-01003	〃	for Screw Set	1
	4	QPGA010-01503	〃	for Unit	1

Dimensions

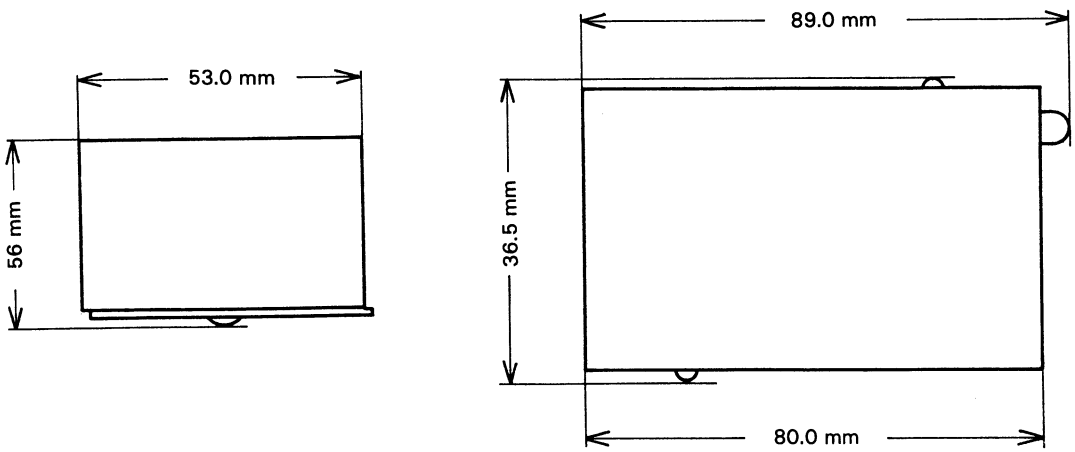


Fig. 13

Accessories

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
		VNK0006-901	Inst. Manual	KS-U2K	1
		〃 -301	〃	KS-U2K(E)	1
		VKZ4029-001	Screw		1
		VKZ4025-002	Bolt		1
		NNS5000Z	Nut		1
		WLS5000Z	Washer		1
		WNS5000Z	〃		1
		VMP3017-001	Sensor Wire Ass'y		1

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